SHIPRAMA CONSULTING ENGINEERS PRIVATE LIMITED
(Mechanical Testing Laboratory Division)
ISO 9001:2015

Report No: SCEPL/MT/Mar/15/01/01/2020-21 **Date:16.03.2020**

TEST REPORT

***Client Name & Address:** Asst. Executive Engineer,
Vidyaranya Pura Sub Division
BBMP, Bangalore.

***Name of Work:** Improvements to Roads and Drains at Byarappa Garden, KNE College 4th Block,Kateramma Layout cross Roads in ward No 10 Doddabommasandra

*** Letter Reference** No:BBMP/EE/BTP/WO/209/2019-20 Dated-10.03.2020

CRF No/SCEPL ID: SCEPL/MT/2020/Mar/15/01

Source of Sample: Samples supplied by the Customer

Date of Receipt: 15.03.2020

Date of Test: 15.03.2020 to 16.03.2020

Sample Type/Size: 40 mm down size aggregate

Reference to BIS codes: IS: 383 - 1970 Reaffirmed 2011(Specification for Coarse and fine Aggregates from natural sources for concrete
IS 2386 Part-1-1963.Reaffrimed-2002

1. Sieve analysis

Total weight taken: 10000 grams

Sample No.	Sieve Size mm	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970 (RA- 2011)
1	80	0	0	0	100	100
2	40	375	375	3.75	96.25	90-100
3	20	5233	5608	56.08	43.92	30-70
4	10	4880	10488	104.88	-4.88	10-35
5	4.75	3859	14347	143.47	-43.47	0-5
6	Pan	653	15000	150.00	-50.00	--

Sl.no	Tests		Result
1	Specifica Gravity		2.61
2	Water Absorption (%)		0.74
3	Bulk density	Loose (Kg/Liters)	1.55
		Compacted ((Kg/Liters)	1.62
4	Shape test	Flakiness Index (%)	13.18
		Elongation Index (%)	11.20

Remarks:-

The results pertain to the samples received and tested.

Any correction in the report will make this report invalid.

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 90 days from the date of issue of test certificate

*** End of the report***

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

Authorized Signatory

CONSULTING ENGINEERS Bangalore

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AE W10

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

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SHIPRAMA CONSULTING ENGINEERS PRIVATE LIMITED

(Mechanical Testing Laboratory Division)

ISO 9001:2015

Report No: SCEPL/MT/Mar/18/01/1/2020-21 **Date:20.03.2020**

TEST REPORT

***Client Name & Address:**	Asst. Executive Engineer, Vidyaranya Pura Sub Division BBMP, Bangalore.
***Name of Work:**	Improvements to Roads and Drains at Byarappa Garden, KNE College 4th Block,Kateramma Layout cross Roads in ward No 10 Doddabommasandra
***Letter Reference**	No:BBMP/EE/BTP/WO/209/2019-20 Dated-10.03.2020
CRF No/SCEPL ID:	SCEPL/MT/2020/Mar/20/01
Source of Sample:	Samples supplied by the Customer
Date of Receipt:	18.03.2020
Date of Test:	18.03.2020 to 20.03.2020
Sample Type/Size:	40 mm down size aggregate
Reference to BIS codes:	IS: 383 - 1970 Reaffirmed 2011(Specification for Coarse and fine Aggregates from natural sources for concrete iS 2386 Part-1-1963.Reaffrimed-2002

1. Sieve analysis

Total weight taken: 15000 grams

Sample No.	Sieve Size mm	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970 (RA- 2011)
1	80	0	0	0	100	100
2	40	420	420	2.8	97.2	90-100
3	20	5163	5583	37.22	62.78	30-70
4	10	4900	10483	69.89	30.11	10-35
5	4.75	3850	14333	95.55	4.45	0-5
6	Pan	667	15000	100.00	0.00	--

Sl.no	Tests		Result
1	Specifica Gravity		2.65
2	Water Absorption (%)		0.43
3	Bulk density	Loose (Kg/Liters)	1.58
		Compacted ((Kg/Liters)	1.73
4	Shape test	Flakiness Index (%)	15.18
		Elongation Index (%)	13.20

Remarks:-

The results pertain to the samples received and tested.

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*** End of the report***

SHIPRAMA CONSULTING ENGINEER PVT. LTD. Bangalore

Suvitha-NK AE 010

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(Mechanical Testing Laboratory Division)
ISO 9001:2015

Report No: SCEPL/MT/Mar/20/01/1/2020-21 **Date:23.03.2020**

TEST REPORT

***Client Name & Address:** Asst. Executive Engineer,
Vidyaranya Pura Sub Division
BBMP, Bangalore.

***Name of Work:** Improvements to Roads and Drains at Byarappa Garden, KNE College 4th Block,Kateramma Layout cross Roads in ward No 10 Doddabommasandra

*** Letter Reference** No:BBMP/EE/BTP/WO/209/2019-20 Dated-10.03.2020

CRF No/SCEPL ID: SCEPL/MT/2020/Jul/20/01

Source of Sample: Samples supplied by the Customer

Date of Receipt: 20.03.2020

Date of Test: 20.03.2020 to 23.03.2020

Sample Type/Size: 40 mm down size aggregate

Reference to BIS codes: IS: 383 - 1970 Reaffirmed 2011(Specification for Coarse and fine Aggregates from natural sources for concrete
IS 2386 Part-1-1963.Reaffrimed-2002

1. Sieve analysis

Total weight taken: 15000 grams

Sample No.	Sieve Size mm	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970 (RA- 2011)
1	80	0	0	0	100	100
2	40	390	390	2.6	97.4	90-100
3	20	5253	5643	37.62	62.38	30-70
4	10	4860	10503	70.02	29.98	10-35
5	4.75	3859	14362	95.75	4.25	0-5
6	Pan	638	15000	100.00	0.00	--

Sl.no	Tests		Result
1	Specifica Gravity		2.69
2	Water Absorption (%)		0.64
3	Bulk density	Loose (Kg/Liters)	1.50
		Compacted ((Kg/Liters)	1.68
4	Shape test	Flakiness Index (%)	14.15
		Elongation Index (%)	12.20

Remarks:-

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*** End of the report***

BVH CONSULTING ENGINEER PVT. LTD. Bangalore

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SHIPRAMA CONSULTING ENGINEERS PRIVATE LIMITED

(Mechanical Testing Laboratory Division)

ISO 9001:2015

Report No: SCEPL /MT/Mar/15/01/01/2019-20 **Date:22.03.2020**

TEST REPORT

***Client & Address:**	Asst. Executive Engineer, Vidyaranya Pura Sub Division BBMP, Bangalore.
***Name of Work:**	Improvements to Roads and Drains at Byarappa Garden, KNE College 4th Block,Kateramma Layout cross Roads in ward No 10 Doddabommasandra
*** Letter Reference**	No:BBMP/EE/BTP/WO/209/2019-20 Dated-10.03.2020
CRF No/SCEPL ID:	SCEPL/MT/2020/Mar/15/01
Source of Sample:	Samples supplied by the Customer
Date of Receipt:	15.03.2020
Period of Test :	15.03.2020 to 22.03.2020
Grade of Cement :	53 Grade OPC
Sample Type & Brand:	Cement, RAMCO
Reference to BIS codes:	IS-8112-1989 and IS-4031 (Part 1 to 6)-1988 Reaffrimed-2008

Physical Test On Cement

SL. No	Name of Tests	Test Result	Min Req. AS per IS-8112-1989&IS-4031-1988
1	Initial setting Time in minutes	**158 min**	Shall not be less than 30 minutes
2	Final Setting time, in minutes	**270 min**	Shall not be more than 600 minutes
3	Fineness (by dry sieve on 90 Micron Sieve) %	**1.92%**	Not exceeded than 10.0%
4	Soundness Test (by Le-chatelier,s method)	**2.09**	Shall not be more than 10 mm
5	Compressive Strength a) 3 days (Average of three results)	**28.44 N/Sq mm**	Shall not be less than 27 N/Sq mm
	b)7 days (Average of the three Results)	**34.35 N/Sq mm**	Shall not be less than 27 N/Sq mm

Remarks:-

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Samples will be disposed after 90 days from the date of issue of test certificate

* Information furnished by the client

*** End of the report***

BVK CONSULTING ENGINEER PVT LTD Bangalore

Suvetha.N.L AE WID

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(Mechanical Testing Laboratory Division)

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Report No: SCEPL /MT/May/05/01/01/2019-20 **Date:12.05.2020**

TEST REPORT

***Client & Address:** Asst. Executive Engineer, Vidyaranya Pura Sub Division BBMP, Bangalore.

***Name of Work:** Improvements to Roads and Drains at Byarappa Garden, KNE College 4th Block,Kateramma Layout cross Roads in ward No 10 Doddabommasandra

*** Letter Reference** No:BBMP/EE/BTP/WO/209/2019-20 Dated-10.03.2020

CRF No/SCEPL ID: SCEPL/MT/2020/May/05/01

Source of Sample: Samples supplied by the Customer

Date of Receipt: 05.05.2020

Period of Test 05.05.2020 to 12.05.2020

Sample Type & Size: Reinforcement steel 10 mm TMT bars

Reference to BIS codes: IS-8112-1989 and IS-4031 (Part 1 to 6)-1988 Reaffrimed-2008

Physical Test On Cement

SL. No	Name of Tests	Test Result	Min Req. AS per IS-8112-1989&IS-4031-1988
1	Initial setting Time in minutes	138 min	Shall not be less than 30 minutes
2	Final Setting time, in minutes	280 min	Shall not be more than 600 minutes
3	Fineness (by dry sieve on 90 Micron Sieve) %	1.82%	Not exceeded than 10.0%
4	Soundness Test (by Le-chatelier,s method)	2.09	Shall not be more than 10 mm
5	Compressive Strength a) 3 days (Average of three results)	29.44 N/Sq mm	Shall not be less than 27 N/Sq mm
	b)7 days (Average of the three Results)	35.35 N/Sq mm	Shall not be less than 27 N/Sq mm

Remarks:-

The results pertain to the samples received and tested.

Any correction in the report will make this report invalid

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Samples will be disposed after 90 days from the date of issue of test certificate

* Information furnished by the client

*** End of the report***

SHIPRAMA CONSULTIG ENGINEERS PVT. LTD. Bangalore

Suvetha. N.K
AE/JD

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

Authorized Signatory

Assistant Executive Engineer
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(Mechanical Testing Laboratory Division)

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Report No: SCEPL /MT/May/12/01/01/2019-20 **Date:19.05.2020**

TEST REPORT

***Client & Address:**	Asst. Executive Engineer, Vidyaranya Pura Sub Division , BBMP, Bangalore.
***Name of Work:**	Improvements to Roads and Drains at Byarappa Garden, KNE College 4th Block,Kateramma Layout cross Roads in ward No 10 Doddabommasandra
***Letter Reference**	No:BBMP/EE/BTP/WO/209/2019-20 Dated-10.03.2020
CRF No/SCEPL ID:	SCEPL/MT/2020/May/12/01
Source of Sample:	Samples supplied by the Customer
Date of Receipt:	12.05.2020
Period of Test :	12.05.2020 to 19.05.2020
Grade of Cement :	53 Grade OPC
Sample Type & Brand:	Cement, RAMCO
Reference to BIS codes:	IS-8112-1989 and IS-4031 (Part 1 to 6)-1988 Reaffrimed-2008

Physical Test On Cement

SL. No	Name of Tests	Test Result	Min Req. AS per IS-8112-1989&IS-4031-1988
1	Initial setting Time in minutes	**151 min**	Shall not be less than 30 minutes
2	Final Setting time, in minutes	**264 min**	Shall not be more than 600 minutes
3	Fineness (by dry sieve on 90 Micron Sieve) %	**2.02%**	Not exceeded than 10.0%
4	Soundness Test (by Le-chatelier,s method)	**3.19**	Shall not be more than 10 mm
5	Compressive Strength a) 3 days (Average of three results)	**29.14N/Sq mm**	Shall not be less than 27 N/Sq mm
	b)7 days (Average of the three Results)	**33.35 N/Sq mm**	Shall not be less than 27 N/Sq mm

Remarks:-

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* Information furnished by the client

*** End of the report***

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Authorized Signatory

Assistant Executive Engineer Vidyaranyapura Sub Division BBMP, Bangalore.-97

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Bengaluru-560091.Mob:9886212878 Ph.: 080 29554444 | Email: shiprama888@gmail.com |

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Report No: SCEPL /MT/May/20/01/01/2019-20 Date:27.05.2020

TEST REPORT

*Client & Address: Asst. Executive Engineer,
Vidyaranya Pura Sub Division BBMP,
Bangalore.

*Name of Work: Improvements to Roads and Drains at Byarappa Garden, KNE College 4th Block,Kateramma Layout cross Roads in ward No 10 Doddabommasandra

* Letter Reference: No:BBMP/EE/BTP/WO/209/2019-20 Dated-10.03.2020

CRF No/SCEPL ID: SCEPL/MT/2020/May/20/01

Source of Sample: Samples supplied by the Customer

Date of Receipt: 20.05.2020

Period of Test : 20.05.2020 to 27.05.2020

Grade of Cement : 53 Grade OPC

Sample Type & Brand: Cement, RAMCO

Reference to BIS codes: IS-8112-1989 and IS-4031 (Part 1 to 6)-1988 Reaffrimed-2008

Physcical Test On Cement

SL. No	Name of Tests	Test Result	Min req. AS per IS-8112-1989&IS-4031-1988
1	Initial setting Time in minutes	161 min	Shall not be less than 30 minutes
2	Final Setting time, in minutes	304 min	Shall not be more than 600 minutes
3	Fineness (by dry sieve on 90 Micron Sieve) %	3.02%	Not exceeded than 10.0%
4	Soundness Test (by Le-chatelier,s method)	2.19	Shall not be more than 10 mm
5	Compressive Strength a) 3 days (Average of three results)	27.74 N/Sq mm	Shall not be less than 27 N/Sq mm
	b)7 days (Average of the three Results)	35.35 N/Sq mm	Shall not be less than 27 N/Sq mm

Remarks:-

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Samples will be disposed after 90 days from the date of issue of test certificate

* Information furnished by the client

*** End of the report***

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

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Assistant Executive Engineer Vidyaranyapura Sub Division BBMP, Bangalore-97

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SHIPRAMA CONSULTING ENGINEERS PRIVATE LIMITED

(Mechanical Testing Laboratory Division)

ISO 9001:2015

Report No: SCEPL /MT/May/09/01/2020-21 **Date:12.05.2020**

TEST REPORT

***Client & Address:**	Asst. Executive Engineer, Vidyaranya Pura Sub Division BBMP, Bangalore.
***Name of Work:**	Improvements to Roads and Drains at Byarappa Garden, KNE College 4th Block,Kateramma Layout cross Roads in ward No 10 Doddabommasandra
*** Letter Reference**	No:BBMP/EE/BTP/WO/208/2019-20 Dated- 10.03.2020
CRF No/SCEPL ID:	SCEPL/MT/2020/May/09/01
Source of Sample:	Samples supplied by the Customer
Date of Receipt:	09.05.2020
Period of Test	09.05.2020 to 12.05.2020
Brand Name & Grade of Steel	Indus, Fe-500
Sample Type & Size:	Reinforcement steel 12 mm bars
Reference to BIS codes:	IS-1786-2008, IS:1608-2005(Ra-2011),IS:1599-2012

1.Steel Bars

SL. No	Details	Per 12 mm bar	
		Test Result	Min req. AS per IS-1786-2008
1	Observed Diameter of the bar	**12.0 mm**	12.0mm
2	Observed Wt/m Length of Bar in Kg/m	**0.885**	0.827
3	Proof Stress/Yield Stress,fy, **N/mm2**	**576**	500
4	Bend /Rebend Test	**Satisfoctory**	Pass
5	Percentage of Elongation, %	**19%**	12.00
6	Ultimate Tensile Stress **N/mm2**	**620.0**	545.0

Remarks:-

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* Information furnished by the client

*** End of the report ***

BVH Consulting Engineers Pvt. Ltd., Bangalore

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Report No: SCEPL /MT/May/09/01/2020-21 **Date:12.05.2020**

TEST REPORT

***Client & Address:**	Asst. Executive Engineer, Vidyaranya Pura Sub Division BBMP, Bangalore.
***Name of Work:**	Improvements to Roads and Drains at Byarappa Garden, KNE College 4th Block,Kateramma Layout cross Roads in ward No 10 Doddabommasandra
*** Letter Reference**	No:BBMP/EE/BTP/WO/208/2019-20 Dated- 10.03.2020
CRF No/SCEPL ID:	SCEPL/MT/2020/May/09/01
Source of Sample:	Samples supplied by the Customer
Date of Receipt:	09.05.2020
Period of Test	09.05.2020 to 12.05.2020
Brand Name & Grade of Steel	Indus, Fe-500
Sample Type & Size:	Reinforcement steel 10 mm bars
Reference to BIS codes:	IS-1786-2008, IS:1608-2005(Ra-2011),IS:1599-2012

1.Steel Bars

SL. No	Details	Per 10 mm bar	
		Test Result	Min req. AS per IS-1786-2008
1	Observed Diameter of the bar	**10.0 mm**	10.0mm
2	Observed Wt/m Length of Bar in Kg/m	**0.621**	0.567
3	Proof Stress/Yield Stress,fy, **N/mm2**	**538**	500
4	Bend /Rebend Test	**Satisfotory**	Pass
5	Percentage of Elongation, %	**21.3**	12.00
6	Ultimate Tensile Stress **N/mm2**	**636.0**	545.0

Remarks:-

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(Mechanical Testing Laboratory Division)

ISO 9001:2015

Report No:SCEPL/MT/May/05/01/01/2020-21

Date:09.05.2020

TEST REPORT

*Client Name& Address:	Asst. Executive Engineer Vidyaranya Pura Sub Division BBMP, Bangalore.
*Name of Work:	Improvements to Roads and Drains at Byarappa Garden, KNE College 4th Block,Kateramma Layout cross Roads in ward No 10 Doddabommasandra
*Letter Reference:	No:BBMP/EE/BTP/WO/209/2019-20 Dated-10.03.2020
SCEPL ID	SCEPL/MT/2020/May/05/01
Agency	
Source of Sample:	Samples supplied by the Customer
Date of Receipt:	02.05.2020
Sample Type/Size/ Grade/Age:	CC Cubes/150mmx150mmx150mm/7 days Compressive Strength
Reference to BIS codes:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
*Grade of concrete	M20
*Location	U Drain Bottom Raft

Compressive strength of Concrete cube

Sl. No.	Identification mark	Date of Casting	Date of Testing	Dimension of the Specimen mm			Cross sectional area (Sq.mm)	Weight (kg)	Failure Load (kN)	Compressive strength (N/mm2)	Average Compressive Strength (N/mm^2)
				L	B	H					
1	May/02/01-01	02.05.2020	09.05.2020	150.0	150.0	149.9	22500	8.050	365.9	16.26	16.47
	May/02/01-02	02.05.2020	09.05.2020	150.0	149.9	150.0	22485	8.300	356.7	15.86	
	May/02/01-03	02.05.2020	09.05.2020	149.9	150.0	149.8	22485	8.250	388.5	17.28	
2	May/02/01-04	02.05.2020	09.05.2020	150.0	150.0	149.9	22500	8.080	345.9	15.37	15.88
	May/02/01-05	02.05.2020	09.05.2020	150.0	149.9	150.0	22485	8.100	366.7	16.31	
	May/02/01-06	02.05.2020	09.05.2020	149.9	150.0	149.8	22485	8.250	358.5	15.94	
3	May/02/01-07	02.05.2020	09.05.2020	150.0	150.0	149.9	22500	8.150	345.9	15.37	15.58
	May/02/01-08	02.05.2020	09.05.2020	150.0	149.9	150.0	22485	8.120	336.7	14.97	
	May/02/01-09	02.05.2020	09.05.2020	149.9	150.0	149.8	22485	8.260	368.5	16.39	

Remarks:-

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* Information furnished by the client

*** End of the report***

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